

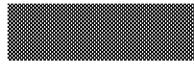
Radium-226

Up Gradient Wells	Sample #	pCi/L	Uncertainty	MDC
HWD Plant 9 Well 9-1	DEC-RAD-1	0.36	0.34	0.44
HWD Plant 11 (OC Road) N-10555	DEC-RAD-2	0.06	0.40	0.80
BWD Plant 1 Well 1-1 (N-8767)	DEC-RAD-3	1.27	0.67	0.72
N-09920	DEC-RAD-4	0.66	0.51	0.72
N-09920 - DUP	DEC-RAD-4	0.50	0.43	0.60
HWD N-8779	DEC-RAD-36	1.15	0.63	0.69
HWD N-10208	DEC-RAD-37	0.30	0.42	0.72

Mean **0.61**
Standard Deviation **0.45**
Weighted Mean **0.71**

Side & Down Gradient Wells	Sample #	pCi/L	Uncertainty	
TT-309S	DEC-RAD-5	0.16	0.31	0.56
TT-309I	DEC-RAD-6	0.46	0.43	0.62
TT-309D	DEC-RAD-7	0.63	0.47	0.58
RE108D1	DEC-RAD-8	1.45	0.67	0.65
RE108D2	DEC-RAD-9	0.50	0.36	0.41
RE104D1	DEC-RAD-10	0.27	0.33	0.50
RE104D2	DEC-RAD-11	1.09	0.64	0.77
RE104D3	DEC-RAD-12	0.52	0.57	0.91
TT-102D	DEC-RAD-13	1.20	0.66	0.79
TT102D2	DEC-RAD-14	0.20	0.43	0.80
BPOW-2-1	DEC-RAD-15	0.51	0.32	0.14
BPOW-2-2	DEC-RAD-16	0.21	0.42	0.75
BPOW-2-3	DEC-RAD-17	0.25	0.23	0.14
BCPMW-4-1	DEC-RAD-18	0.50	0.56	0.92
BCPMW-4-2	DEC-RAD-19	0.52	0.48	0.73
BCPMW-4-3	DEC-RAD-20	0.00	0.42	0.84
MW-100-1	DEC-RAD-21	1.02	0.72	0.98
MW-100-2	DEC-RAD-22	0.62	0.60	0.91
MW-100-3	DEC-RAD-23	0.14	0.47	0.90
GM-17S	DEC-RAD-24	0.06	0.40	0.80
GM-17I	DEC-RAD-25	0.22	0.38	0.69
GM-17D	DEC-RAD-26	0.64	0.44	0.47
GM-13D	DEC-RAD-27	0.10	0.34	0.60
GM-13D - DUP	DEC-RAD-27	0.24	0.51	0.91
GM-15 S	DEC-RAD-28	5.31	1.35	0.83
GM-15 I	DEC-RAD-29	1.42	0.75	0.92
GM-15 D	DEC-RAD-30	0.92	0.56	0.69
GM-23 S*	DEC-RAD-31	0.69	0.48	0.62

Radium-228			Ra-226 + Ra-228	
pCi/L	Uncertainty	MDC	pCi/L	pCi/L
1.32	0.50	0.77	0.36	1.32
0.93	0.41	0.68	0.06	0.93
0.75	0.40	0.71	1.27	0.75
0.53	0.43	0.86	0.66	0.53
0.54	0.44	0.88	0.50	0.54
1.73	0.51	0.62	1.15	1.73
0.76	0.40	0.72	0.30	0.76
Mean			0.94	
Standard Deviation			0.44	
Weighted Mean			0.97	
pCi/L	Uncertainty			
0.72	0.44	0.82	0.16	0.72
0.69	0.44	0.83	0.46	0.69
0.50	0.43	0.87	0.63	0.50
0.10	0.33	0.75	1.45	0.10
0.69	0.42	0.77	0.50	0.69
0.38	0.33	0.67	0.27	0.38
-0.15	0.36	0.87	1.09	-0.15
0.32	0.32	0.66	0.52	0.32
2.38	0.66	0.75	1.20	2.38
0.38	0.41	0.85	0.20	0.38
0.33	0.43	0.91	0.51	0.33
0.79	0.44	0.81	0.21	0.79
0.67	0.44	0.83	0.25	0.67
1.32	0.48	0.68	0.50	1.32
0.28	0.34	0.72	0.52	0.28
0.54	0.38	0.72	0.00	0.54
2.04	0.60	0.70	1.02	2.04
0.75	0.36	0.60	0.62	0.75
1.31	0.49	0.73	0.14	1.31
-0.16	0.33	0.81	0.06	-0.16
0.06	0.28	0.64	0.22	0.06
0.65	0.36	0.64	0.64	0.65
0.55	0.46	0.95	0.10	0.55
0.95	0.52	0.97	0.24	0.95
3.28	0.85	0.87	5.31	3.28
1.62	0.56	0.80	1.42	1.62
2.93	0.77	0.79	0.92	2.93
0.69	0.47	0.93	0.69	0.69



Total

1.68

0.99

2.02

1.18

1.04

2.88

1.06

Mean 1.55

0.87

1.15

1.13

1.55

1.19

0.65

0.94

0.83

3.58

0.58

0.84

1.01

0.92

1.82

0.80

0.54

3.06

1.37

1.45

-0.10

0.28

1.29

0.66

1.19

8.59

3.04

3.85

1.38

GM-23-I	DEC-RAD-32	1.70	0.63	0.38	
BWD Plant 4 N-6915	DEC-RAD-34	3.16	1.02	0.81	
BWD Plant 4 N-6915 (DUP)	DEC-RAD-34	3.69	1.11	0.83	
BWD Plant 4 N-6916	DEC-RAD-35	2.50	0.88	0.72	
Mean		0.97			
Standard Deviation		1.18			
Weighted Mean		1.44			

0.71	0.46	0.88	1.70	0.71
2.05	0.62	0.79	3.16	2.05
1.86	0.55	0.67	3.69	1.86
1.42	0.49	0.70	2.50	1.42
Mean			0.96	
			0.85	
Weighted Mean			1.18	

2.41

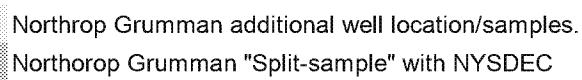
5.21

5.55

3.92

Mean 1.92

Notes and Abbreviations:

 Northrop Grumman additional well location/samples.
 Northrop Grumman "Split-sample" with NYSDEC

R Indicates duplicate sample (sample N-9920R is a duplicate sample of N-9920).

Upgradient Wells

Sample Location	Date	Method	EPA 903.1			El	
		Analyte	Radium-226				
		Unit	pCi/L				
			Result	Uncertainty	MDC		
N-10208	12/8/2015		0.44	0.41	0.58	0.80	
N-10555	12/8/2015		0.11	0.25	0.40	1.08	
N-12535	12/17/2015		0.28	0.43	0.75	1.75	
N-13097	12/9/2015		0.06	0.43	0.84	0.75	
N-3878	12/9/2015		1.12	0.55	0.44	1.37	
N-6077	12/17/2015		1.38	0.78	0.87	3.26	
N-6580	12/17/2015		0.92	0.58	0.66	2.27	
N-7562	12/9/2015		0.67	0.42	0.48	1.71	
N-8595	12/17/2015		0.75	0.56	0.70	1.91	
N-8767	12/7/2015		0.57	0.48	0.72	0.85	
N-8778	12/8/2015		0.22	0.30	0.51	0.83	
N-8779	12/8/2015		0.47	0.37	0.48	1.36	
N-9488	12/9/2015		0.29	0.31	0.43	0.80	
N-9920R	10/7/2015		-0.04	0.47	0.96	0.40	
N-9920	10/7/2015		0.50	0.46	0.68	0.17	

Average 0.52
 Standard Deviation 0.40
 Weighted Mean 0.60

Average 1.29
 Standard Deviation 0.80
 Weighted Mean 1.36

Sidegradient Wells

Sample Location	Date	Method	EPA 903.1			El	
		Analyte	Radium-226				
		Unit	pCi/L				
			Result	Uncertainty	MDC		
N-8321	12/15/2015		0.92	0.73	0.97	2.81	
N-8526	12/10/2015		1.35	0.60	0.63	0.57	
N-9180	12/10/2015		0.98	0.47	0.43	1.17	
N-9212	12/10/2015		0.77	0.44	0.40	1.72	
N11004	12/17/2015		1.27	0.62	0.20	1.40	
N-12560	12/15/2015		1.48	0.82	1.00	1.39	
N-12560 DUP	12/15/2015		3.15	1.15	0.92	1.16	

PA 904.0	
dium-228	
pCi/L	
Uncertainty	MDC
0.36	0.60
0.40	0.58
0.57	0.76
0.46	0.86
0.46	0.63
0.84	0.85
0.69	0.87
0.56	0.75
0.62	0.84
0.40	0.69
0.38	0.62
0.48	0.69
0.41	0.71
0.35	0.71
0.27	0.59

Ra-226 + Ra-228	
1.24	
1.19	
2.03	
0.81	
2.49	
4.64	
3.19	
2.38	
2.66	
1.42	
1.05	
1.83	
1.10	
0.36	
0.67	

Average **1.80**

PA 904.0	
dium-228	
pCi/L	
Uncertainty	MDC
0.76	0.81
0.37	0.71
0.43	0.63
0.50	0.58
0.55	0.83
0.52	0.75
0.50	0.82

Ra-226 + Ra-228	
3.73	
1.92	
2.15	
2.49	
2.67	
2.87	
4.31	

N-7516	12/15/2015	0.89	0.65	0.73	0.25
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Average	1.35	Average	1.31
Standard Deviation	0.77	Standard Deviation	0.77
Weighted Mean	1.55	Weighted Mean	1.47

Downgradient Wells

Sample Location	Date	Method	EPA 903.1			
		Analyte	Radium-226			
		Unit	pCi/L			
			Result	Uncertainty	MDC	
N-6915	12/7/2015		4.49	1.17	0.69	1.43
N-6915 DUP	12/7/2015		3.01	0.89	0.65	1.60
N-6916	12/7/2015		0.10	0.24	0.38	0.96
MW-100-1	10/1/2015		-0.22	0.34	0.89	0.56
MW-100-2	10/1/2015		0.82	0.61	0.80	1.48
MW-100-3	10/1/2015		1.32	0.71	0.72	2.27
GM-17D	10/2/2015		0.68	0.58	0.72	1.09
GM-17I	10/2/2015		0.61	0.51	0.64	-0.06
GM-17SR	10/2/2015		0.84	0.66	0.90	0.09
GM-15D	10/5/2015		1.25	0.63	0.69	3.07
GM-15I	10/5/2015		2.78	0.86	0.16	0.71
GM-15SR	10/5/2015		4.71	1.25	0.76	3.10
GM-13D	10/6/2015		0.44	0.38	0.47	0.13
GM-13D DUP	10/6/2015		0.29	0.31	0.43	0.50
GM-23I	10/6/2015		2.16	0.75	0.42	1.13
GM-23S	10/6/2015		0.65	0.42	0.44	0.56
BCPMW 4-1	10/8/2015		-0.24	0.37	0.89	0.61
BCPMW 4-2	10/8/2015		0.06	0.47	0.92	0.51
BCPMW 4-3	10/8/2015		0.70	0.49	0.63	0.45

Average	1.29	Average	1.06
Standard Deviation	1.47	Standard Deviation	0.92
Weighted Mean	1.90	Weighted Mean	1.32

0.37	0.81
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1.14

Average 2.66

PA 904.0	
dium-228	
pCi/L	
Uncertainty	MDC
0.46	0.60
0.53	0.73
0.50	0.91
0.35	0.65
0.53	0.77
0.63	0.70
0.49	0.84
0.39	0.88
0.37	0.83
0.79	0.80
0.38	0.68
0.77	0.68
0.31	0.68
0.34	0.65
0.45	0.71
0.36	0.68
0.37	0.69
0.33	0.62
0.35	0.69

Ra-226 + Ra-228	
5.92	
4.61	
1.06	
0.34	
2.30	
3.59	
1.77	
0.55	
0.93	
4.32	
3.49	
7.81	
0.58	
0.80	
3.29	
1.21	
0.37	
0.57	
1.14	

Average 2.35